



1/8

## SEQUENCE LISTING

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&lt;120&gt; Prevention and Treatment of Amyloidogenic Disease

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<140> US 09/580,015  
<141> 2000-05-26

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<150> US 09/201,430  
<151> 1998-11-30

<150> WO PCT/US00/14810  
<151> 1998-11-30

<150> US 60/080,970  
<151> 1998-04-07

<150> US 60/067,740  
<151> 1997-12-02

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<210> 1  
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<223> Description of Artificial Sequence: 10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 1  
Glu Glu Ile Ser Glu Val Lys Met Asp Ala  
1 5 10

<210> 2  
<211> 10  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: 10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 2  
Glu Ile Ser Glu Val Lys Met Asp Ala Glu  
1 5 10

<210> 3  
<211> 10  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 3  
Ile Ser Glu Val Lys Met Asp Ala Glu Phe  
1 5 10

<210> 4  
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<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 4  
Ser Glu Val Lys Met Asp Ala Glu Phe Arg  
1 5 10

<210> 5  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 5  
Glu Val Lys Met Asp Ala Glu Phe Arg His  
1 5 10

<210> 6  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 6  
Val Lys Met Asp Ala Glu Phe Arg His Asp  
1 5 10

<210> 7  
<211> 10  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 7  
Lys Met Asp Ala Glu Phe Arg His Asp Ser  
1 5 10

<210> 8  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 8  
Met Asp Ala Glu Phe Arg His Asp Ser Gly  
1 5 10

<210> 9  
<211> 10  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 9  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr  
1 5 10

<210> 10  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

*621*

<400> 10  
Ala Glu Phe Arg His Asp Ser Gly Tyr Glu  
1 5 10

<210> 11  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 11  
Glu Phe Arg His Asp Ser Gly Tyr Glu Val  
1 5 10

<210> 12  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 12  
Phe Arg His Asp Ser Gly Tyr Glu Val His  
1 5 10

<210> 13  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 13  
Arg His Asp Ser Gly Tyr Glu Val His His  
1 5 10

<210> 14  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

122

<400> 14  
His Asp Ser Gly Tyr Glu Val His His Gln  
1 5 10

<210> 15  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 15  
Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10

<210> 16  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 16  
Ser Gly Tyr Glu Val His His Gln Lys Leu  
1 5 10

<210> 17  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 17  
Gly Tyr Glu Val His His Gln Lys Leu Val  
1 5 10

<210> 18  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

*623*

<400> 18  
Tyr Glu Val His His Gln Lys Leu Val Phe  
1 5 10

<210> 19  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 19  
Glu Val His His Gln Lys Leu Val Phe Phe  
1 5 10

<210> 20  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 20  
Val His His Gln Lys Leu Val Phe Phe Ala  
1 5 10

<210> 21  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 21  
His His Gln Lys Leu Val Phe Phe Ala Glu  
1 5 10

<210> 22  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

124

<400> 22  
His Gln Lys Leu Val Phe Phe Ala Glu Asp  
1 5 10

<210> 23  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 23  
Gln Lys Leu Val Phe Phe Ala Glu Asp Val  
1 5 10

<210> 24  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 24  
Lys Leu Val Phe Phe Ala Glu Asp Val Gly  
1 5 10

<210> 25  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 25  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser  
1 5 10

<210> 26  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

*625*

<400> 26  
Val Phe Phe Ala Glu Asp Val Gly Ser Asn  
1 5 10

<210> 27  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 27  
Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
1 5 10

<210> 28  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 28  
Phe Ala Glu Asp Val Gly Ser Asn Lys Gly  
1 5 10

<210> 29  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 29  
Ala Glu Asp Val Gly Ser Asn Lys Gly Ala  
1 5 10

<210> 30  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

626

<400> 30  
Glu Asp Val Gly Ser Asn Lys Gly Ala Ile  
1 5 10

<210> 31  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 31  
Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
1 5 10

<210> 32  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 32  
Val Gly Ser Asn Lys Gly Ala Ile Ile Gly  
1 5 10

<210> 33  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 33  
Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu  
1 5 10

<210> 34  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

127

<400> 34  
Ser Asn Lys Gly Ala Ile Ile Gly Leu Met  
1 5 10

<210> 35  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 35  
Asn Lys Gly Ala Ile Ile Gly Leu Met Val  
1 5 10

<210> 36  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 36  
Lys Gly Ala Ile Ile Gly Leu Met Val Gly  
1 5 10

<210> 37  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 37  
Gly Ala Ile Ile Gly Leu Met Val Gly Gly  
1 5 10 .

<210> 38  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

128

<400> 38  
Ala Ile Ile Gly Leu Met Val Gly Gly Val  
1 5 10

<210> 39  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 39  
Ile Ile Gly Leu Met Val Gly Gly Val Val  
1 5 10

<210> 40  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 40  
Ile Gly Leu Met Val Gly Gly Val Val Ile  
1 5 10

<210> 41  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:10-mer peptide  
from AN1792 sequence (human Abeta42, beta-amyloid  
peptide)

<400> 41  
Gly Leu Met Val Gly Gly Val Val Ile Ala  
1 5 10

<210> 42  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<223> human Abeta42 beta-amyloid peptide

<400> 42  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
 20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala  
 35 40

<210> 43  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:influenza  
 hemagglutinin HA-307-319 universal T-cell epitope

<400> 43  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
 1 5 10

<210> 44  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:PADRE universal  
 T-cell epitope

<220>  
<221> misc\_feature  
<222> (3)  
<223> Xaa = Any amino acid

<400> 44  
Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala  
 1 5 10

<210> 45  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:malaria CS, T3  
 epitope universal T-cell epitope

<400> 45  
Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn Val  
 1 5 10 15

<210> 46  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:hepatitis B  
surface antigen HBsAg-19-28 universal T-cell  
epitope

<400> 46  
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile  
1 5 10

<210> 47  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:heat shock  
protein 65 hsp65-153-171 universal T-cell epitope

<400> 47  
Asp Gln Ser Ile Gly Asp Leu Ile Ala Glu Ala Met Asp Lys Val Gly  
1 5 10 15  
Asn Glu Gly

<210> 48  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:bacille  
Calmette-Guerin universal T-cell epitope

<400> 48  
Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu  
1 5 10

<210> 49  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:tetanus toxoid  
TT-830-844 universal T-cell epitope

<400> 49  
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu  
1 5 10 15

<210> 50  
<211> 21  
<212> PRT  
<213> Artificial Sequence

131

<220>

<223> Description of Artificial Sequence:tetanus toxoid  
TT-947-967 universal T-cell epitope

<400> 50

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser  
1 5 10 15

Ala Ser His Leu Glu

20

<210> 51

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:HIV gp120 T1  
universal T-cell epitope

<400> 51

Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala  
1 5 10 15

<210> 52

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:AN 90549 Abeta  
1-7/tetanus toxoid 830-844

<400> 52

Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe  
1 5 10 15

Ile Gly Ile Thr Glu Leu

20

<210> 53

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:AN 90550 Abeta  
1-7/tetanus toxoid 947-967

<400> 53

Asp Ala Glu Phe Arg His Asp Phe Asn Asn Phe Thr Val Ser Phe Trp  
1 5 10 15

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu

20

25

132

<210> 54  
<211> 43  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:AN90542 Abeta  
1-7/tetanus toxoid 830-844 + 947-967

<400> 54  
Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe  
1 5 10 15  
  
Ile Gly Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu  
20 25 30  
  
Arg Val Pro Lys Val Ser Ala Ser His Leu Glu  
35 40

<210> 55  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:AN 90576 Abeta  
3-9/tetanus toxoid 830-844

<400> 55  
Glu Phe Arg His Asp Ser Gly Gln Tyr Ile Lys Ala Asn Ser Lys Phe  
1 5 10 15  
  
Ile Gly Ile Thr Glu Leu  
20

<210> 56  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:AN90562 Abeta  
1-7/peptide

<220>  
<221> misc\_feature  
<222> (3)  
<223> Xaa = any amino acid

<400> 56  
Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala Asp Ala Glu  
1 5 10 15  
  
Phe Arg His Asp  
20

<210> 57  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:AN90543 Abeta  
1-7 x 3/peptide

<220>  
<221> misc\_feature  
<222> (24)  
<223> Xaa = any amino acid

<400> 57  
Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala  
1 5 10 15

Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala  
20 25 30

Ala Ala

<210> 58  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<220>  
<221> misc\_feature  
<222> (3)  
<223> Xaa = any amino acid

<400> 58  
Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala Asp Ala Glu  
1 5 10 15

Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg  
20 25 30

His Asp

<210> 59  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

134

<220>  
<221> misc\_feature  
<222> (10)  
<223> Xaa = any amino acid

<400> 59  
Asp Ala Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu  
1 5 10 15

Lys Ala Ala Ala  
20

<210> 60  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 60  
Asp Ala Glu Phe Arg His Asp Ile Ser Gln Ala Val His Ala Ala His  
1 5 10 15

Ala Glu Ile Asn Glu Ala Gly Arg  
20

<210> 61  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 61  
Phe Arg His Asp Ser Gly Tyr Ile Ser Gln Ala Val His Ala Ala His  
1 5 10 15

Ala Glu Ile Asn Glu Ala Gly Arg  
20

<210> 62  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 62  
Glu Phe Arg His Asp Ser Gly Ile Ser Gln Ala Val His Ala Ala His  
1 5 10 15

Ala Glu Ile Asn Glu Ala Gly Arg  
20

<210> 63  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 63  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr Asp Ala Glu  
1 5 10 15  
Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg  
20 25 30

His Asp

<210> 64  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 64  
Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu  
1 5 10 15  
Lys Leu Ala Thr Asp Ala Glu Phe Arg His Asp  
20 25

<210> 65  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 65  
Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala  
1 5 10 15  
Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu  
20 25 30

Ala Thr

<210> 66  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 66  
Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Pro Lys  
1 5 10 15  
Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
20 25

<210> 67  
<211> 79  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 67  
Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu  
1 5 10 15  
Lys Leu Ala Thr Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser  
20 25 30  
Val Phe Asn Val Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile  
35 40 45  
Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro  
50 55 60  
Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe Arg His Asp  
65 70 75

<210> 68  
<211> 57  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 68  
Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala  
1 5 10 15  
Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly  
20 25 30  
Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val  
35 40 45

*137*

Pro Lys Val Ser Ala Ser His Leu Glu  
50 55

<210> 69  
<211> 44  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 69  
Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe  
1 5 10 15  
Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp  
20 25 30  
Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu  
35 40

<210> 70  
<211> 51  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:fusion protein  
with Abeta epitope

<400> 70  
Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe  
1 5 10 15  
Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp  
20 25 30  
Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe  
35 40 45

Arg His Asp  
50

<210> 71  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:synuclein  
fusion protein

<400> 71  
Glu Gln Val Thr Asn Val Gly Gly Ala Ile Ser Gln Ala Val His Ala  
1 5 10 15

138

Ala His Ala Glu Ile Asn Glu Ala Gly Arg  
20 25

<210> 72  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Abeta 1-12  
peptide with inserted Cys residue

<400> 72  
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val Cys  
1 5 10

<210> 73  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Abeta 1-5  
peptide with inserted Cys residue

<400> 73  
Asp Ala Glu Phe Arg Cys  
1 5

<210> 74  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Abeta 33-42  
peptide with inserted Cys residue

<220>  
<221> MOD\_RES  
<222> (2)  
<223> Xaa = amino-heptanoic acid

<400> 74  
Cys Xaa Gly Leu Met Val Gly Gly Val Val Ile Ala  
1 5 10

<210> 75  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Abeta 13-28  
peptide with two Gly residues added and inserted  
Cys residue

139

<220>  
<221> MOD\_RES  
<222> (1)  
<223> Xaa = N-acetyl His

<400> 75  
Xaa His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
1 5 10 15  
Gly Gly Cys

<210> 76  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:linker

<400> 76  
Glu Gly Glu Gly  
1

<210> 77  
<211> 22  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence:fusion protein with Abeta epitope

<400> 77  
Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe  
1 5 10 15  
Ile Gly Ile Thr Glu Leu  
20